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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/020,414	12/18/2001	Dominique Derou-Madeline	025219-372	9575
7590 08/09/2005			EXAMINER	
ROBERT E. KERBS			MEHRA, INDER P	
THELEN REID & PRIEST LLP P.O. BOX 640640			ART UNIT	PAPER NUMBER
SAN JOSE, CA 95164-0640			2666	

DATE MAILED: 08/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Appli	ication No.	Applicant(s)			
		10/02	20,414	DEROU-MADELI	NE ET AL.		
	Office Action Summary	Exam	niner	Art Unit			
		Inder	P. Mehra	2666			
Period f	The MAILING DATE of this communor Reply	nication appears of	n the cover sheet w	vith the correspondence a	ddress		
THE - Extended - If th - If No - Fail Any	HORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN ensions of time may be available under the provisions or SIX (6) MONTHS from the mailing date of this com- e period for reply specified above is less than thirty (3 0 period for reply is specified above, the maximum soure to reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In munication. 30) days, a reply within th tatutory period will apply a y will, by statute, cause th	no event, however, may a le statutory minimum of thi and will expire SIX (6) MOI le application to become A	reply be timely filed rty (30) days will be considered time NTHS from the mailing date of this BANDONED (35 U.S.C. § 133).			
Status							
1) 又	Responsive to communication(s) file	ed on 18 Decemb	er 2001.				
2a)□							
3)□	Since this application is in condition	ters, prosecution as to th	e merits is				
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	tion of Claims						
5)	Claim(s) <u>1-8</u> is/are pending in the a 4a) Of the above claim(s) is/a Claim(s) is/are allowed. Claim(s) <u>1-8</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrict	are withdrawn fron					
Applicat	tion Papers						
9)[The specification is objected to by the	e Examiner.					
10)⊠	The drawing(s) filed on <u>12/18/2001</u> i	s/are: a)⊟ accep	oted or b)□ object	ed to by the Examiner.			
	Applicant may not request that any obje	ction to the drawing	ı(s) be held in abeya	nce. See 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including	=	•	•	• •		
11)	The oath or declaration is objected to	o by the Examine	r. Note the attache	d Office Action or form P	TO-152.		
Priority	under 35 U.S.C. § 119				•		
а)	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internation	documents have documents have of the priority doc onal Bureau (PCT	been received. been received in A cuments have beer Rule 17.2(a)).	Application No received in this National	l Stage		
Attachmen	• •		∧ □	D (DTO 110)			
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (F	PTO-948)		Summary (PTO-413) s)/Mail Date			
3) 🛛 Infor	mation Disclosure Statement(s) (PTO-1449 or er No(s)/Mail Date <u>1/14/07</u> .		5) Notice of I	nformal Patent Application (PT 	O-152)		

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DETAILED ACTION

1. This office action is in response to application dated: 12/18/01.

Claim Objections

- 2. Claims 1-8 are objected to because of the following informalities:
- a. Claim 1 recites "adaptive routing---", in line 1, which is a language/term that suggests or makes optional but does not require steps to be performed or does not limit a claim to a particular structure does not limit the scope of a claim or claim limitation, refer to MPEP 2106, page 2100-8.

Appropriate correction is required.

- b. Claims 1-8 do not show period or semi-colon towards the end of paragraph or sub-paragraph respectively, and, therefore, do not follow the standard, as enunciated under MPEP 608.01 (m). Each claim begins with a capital letter and ends with a period. Periods may not be used elsewhere in the claims except for abbreviations. See Fressola v. Manbeck, 36 USPQ2d 1211 (D.D.C. 1995). Where a claim sets forth a plurality of elements or steps, each element or step of the claim should be separated by a line indentation, 37 CFR1.75(i).
- c. Claims 3-5 have been amended. When claim text with markings is required. All claims being currently amended in an amendment paper shall be presented in the claim listing, indicate a status of "currently amended," and be submitted with markings to indicate the changes that have been made relative to the immediate prior version of the claims. The text of

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amended."

any added subject matter must be shown by underlining the added text. The text of any deleted matter must be shown by strike-through except that double brackets placed before and after the deleted characters may be used to show deletion of five or fewer consecutive characters.

The text of any deleted subject matter must be shown by being placed within double brackets if strike-through cannot be easily perceived. Only claims having the status of "currently amended," or "withdrawn" if also being amended, shall include markings. If a withdrawn claim is currently amended, its status in the claim listing may be identified as "withdrawn— currently

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the
- 4. Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
 - a. Claim 1 recites the following limitations:

subject matter which the applicant regards as his invention.

- "each router" in line 8. It should be "the router", because it is preceded by the limitation in line 3. Similar problem exists in claim 2 line 2, claim 3 line 3, claim 4 line 2, claim 6 line 2 and claim 7 line 2
- "the said process". in lines 12, 27 and 36. It should either "the process" or "said process". It is improper under antecedent basis rules.
- "the value tables" in line 13. There is no antecedent basis.

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• "objects in lines 33, 34, 37,45, This should have a prefix "the", because it is preceded by the same limitation in line 1,

- "object" in lines 25, 26, 27, 30 onwards throughout the claims. These are not linked resulting into lack od antecedent basis.
- "the internal queue" in line 32, has no antecedent basis.

Claim 2 recites "the destination router" in line 5. There is no antecedent basis.

Note: there are many instances of "lack of antecedent basis in the rest of the claims.

Appropriate action be taken to correct the problem.

b. Claims 1-8 are rejected as failing to define the invention in the manner required by 35 U.S.C. 112, second paragraph.

The claim(s) are narrative in form and replete with indefinite and functional or operational language. The structure which goes to make up the device must be clearly and positively specified. The structure must be organized and correlated in such a manner as to present a complete operative device. The claim(s) must be in one sentence form only.

Allowable Subject Matter

REASONS FOR ALLOWANCE

5. Claims 1-8 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

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The following is an examiner's statement of reasons for allowance:

As recited by claim 1,

Each router is linked with a routing table including values relating to the estimation of the number of deflections undergone by each object at the start of this router for a given destination.

The said process containing a first initialization stage (El) for the value tables linked with each router then a recurrent processing stage of each network link consisting of:

- a) detecting if at least one object has arrived on at least one router (E2)
- b) considering each network link and seeing if there is at least one object on these links
 (E3)
 - if yes move the objects along the links of a unit of time
 - if not wait for a unit of time
 - c) consider each network router and for each detect the state of these incoming links
 (E4)
 - If the presence an object is detected on entering link and destination this object the router considered then said object having arrived the destination is removed from the network
 - if any object with a destination of this router is detected on the incoming links then
 check the state of the internal queue
 - If the internal queue contain objects then transfer these objects in the routing buffer of the router (E4bl).

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If the said buffer is not full then verify if objects are on standby in the external queue
 (E4b4) and fill the buffer with a part at least of the objects on standby in this external
 queue (E(b3) characterised by the fact that it consists of

- d) allocating the content the routing buffer on the outgoing links of the router according to the linked routing table and dynamically estimate the number of deflections which objects undergo forward points of the router to reach their destination (E4c).
- e) updating the linked routing table values to estimate the number of deflections undergone on the whole path by the objects (E4d5, E4d4)

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Prior Art of Record

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ayanoglu (US Patent No. 5,717689) discloses a reliable data link layer protocol to transport ATM cells

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Inder P. Mehra whose telephone number is 571-272-3170. The examiner can normally be reached on Monday through Friday from 8AM to 5PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on 571-272-3174. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Inder Pal Mehra
Inder P Mehra
8/5/05

Examiner
Art Unit 2666

CANG TON PRIMARY EXAMINER